

INTRODUCING
Plume Abatement and
Water Conservation Solutions

/ We're pulling the plug on the plume. /



Let's Clear the Air...

For decades, cooling towers' cold-weather condensation plumes have been a major problem. At best, they're unsightly; at worst, they impair visibility and waste water. Which make them a particular worry around airports and other environmentally sensitive areas.

At SPX Cooling Technologies, we've made it our mission to eradicate as much of the plume as possible – while conserving significant amounts of water along the way.

And we've succeeded.



Two Ways to Tame the Plume

For years, SPX's coil-based hybrid cooling towers have been a highly popular choice. Now, our NCWD tower represents our most advanced application of this technology. SPX's hybrid technology adds a heated dry air stream to our coil system, keeping the plume undersaturated, even upon mixture with the ambient air. Therefore, visible plume is practically eliminated.

Another option is our new Air2Air™ technology, which comes at plume abatement from a slightly different, but similarly effective, angle. Air2Air uses heat exchanger packs to radically reduce condensation and keep the plume in check.

Both solutions can also conserve substantial amounts of water. And no matter which solution you choose, you'll be helping to make "plume history" – by helping to make the plume, well... history.



Our Hardest Working Technologies in Plume Abatement and Water Conservation

NCWD: Assembled on Our Site, Not Yours



The new Marley® NCWD package cooling towers are configured for applications of 500 tons or greater – yet, remarkably, are factory assembled. This significantly broadens the usability of wet/dry towers from “critical applications only” to more mainstream projects and installations.

By combining direct contact (evaporative) and indirect contact (dry) heat exchangers in a parallel arrangement, the NCWD’s crossflow system can result in water savings as high as 20%* versus conventional cooling towers – while markedly limiting visible plume.

In addition, the NCWD line offers:

- Energy-efficient operation
- Lower maintenance requirements
- Cost-effective installation
- For those using chemical water treatment, less blowdown and thus less chemicals

*Dependent on system operating conditions and local weather conditions.

Air2Air: Saving Water, A Lot of Water



Our new, patented Air2Air system uses a series of PVC heat exchanger packs in the tower plenum to condense moisture before it escapes. The result: A substantial reduction in plume emission.

But there's more good news. Air2Air can reduce your cooling tower's water consumption by up to 30% annually*, making it the obvious choice anywhere that water conservation is a prime concern. And Air2Air can be used on either new or existing towers.

Because Air2Air is a fully integrated system, it's more reliable than exclusively coil-based systems, which means:

- Simpler hydraulics for simpler operation
- Fewer moving parts, requiring less maintenance
- No freezing worries

For a personalized economic payback analysis of the impact Air2Air can have on your planned or existing facility, and to sign up for updates on new Air2Air installations, visit www.spxcooling.com/a2a.



If you're concerned with reducing visible plume or saving water, let SPX Cooling Technologies show you how to make our solution, *your solution*.

Visit www.spxcooling.com/clear for all the details.

SPX Cooling Technologies is a world-leading full-line cooling tower and air-cooled condenser manufacturer. The company provides the highest-quality evaporative cooling towers, air-cooled condensers, fluid coolers and evaporative condensers under the Marley, Recold and Balcke brand names.



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